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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TT/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2024-01-02-01 **Date: 13-07-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-07-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2024-01-02-01 Date: 13-07-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2024-01-02-01** **Date: 14-07-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division BBMP, Bangalore
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no 05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No.10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/E/PMT-12/W O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2 (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3 (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4 (RA 2019) Determination of Consistency of Standard Cement Paste Clause 5 IS 4031 Part 5 (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11 (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-07-23
Environmental Conditions during test	:	Temperature: 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	-
2	Finess by Air permeability method (m^2/kg Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2024-01-02-01 **Date: 09-08-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 4: (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6: (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	12-07-23
Environmental Conditions during test	:	Temperature 26 C Humidity 72%

Compressive Strength

SL No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-01-02-01 **Date: 14-07-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-01-02-01 Date: 14-07-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.49	-
5	Bulk Density(Compacted) (Kg/l)	1.51	-
6	Water Absorption(%)	0.25	-

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-01-02-01 **Date: 13-07-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS. 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-01-02-01 Date: 13-07-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2024-01-02-01** **Date: 12-08-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-23
Sample Type /Size	:	Precast Cover Slab (100mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/08/2023
Grade of Slab	:	M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.61	100.48	1.116	4730	125.6	26.6	24.7	30.9
2	Cover Slab-2	77.25	100.52	1.122	4686	120.4	25.7	23.9	29.9
3	Cover Slab-3	77.31	100.51	1.118	4693	123.4	26.3	24.5	30.6

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2024-01-02-01 **Date: 12-08-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-23
Sample Type /Size	:	Precast Cover Slab (230mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/08/2023
Grade of Slab	:	M20

Sl No	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.31	230.61	2.810	4693	105.4	22.5	20.9	26.1
2	Cover Slab-2	77.24	230.24	2.818	4685	101.7	21.7	20.2	25.2
3	Cover Slab-3	77.86	230.55	2.822	4760	103.9	21.8	20.3	25.4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/08/2023

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/LPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-08-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	09/08/2023	16/08/2023	150.38 X 150.68 X 150.48	22660	8.675	330.2	14.6	14.7
2	Drain Bottom Raft Concrete	M20	09/08/2023	16/08/2023	150.92 X 150.40 X 150.15	22699	8.138	334.1	14.7	
3	Drain Bottom Raft Concrete	M20	09/08/2023	16/08/2023	150.74 X 150.39 X 150.60	22670	8.460	335.5	14.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-02-01

Date: 06/09/2023

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division

Agency : Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 06/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	09/08/2023	06/09/2023	150.98 X 150.64 X 150.86	22745	8.942	527.2	23.2	23.4
2	Drain Bottom Raft Concrete	M20	09/08/2023	06/09/2023	150.29 X 150.34 X 150.33	22594	8.129	538.6	23.8	
3	Drain Bottom Raft Concrete	M20	09/08/2023	06/09/2023	150.70 X 150.66 X 150.24	22704	8.491	523.1	23.0	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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B HARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TI/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/09/2023

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no.05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/08/2023	09/09/2023	150.14 X 150.81 X 150.34	22642	8.750	532.8	23.5	23.3
2	Drain Side Wall Concrete	M20	12/08/2023	09/09/2023	150.71 X 150.45 X 150.65	22675	8.955	527.1	23.2	
3	Drain Side Wall Concrete	M20	12/08/2023	09/09/2023	150.77 X 150.39 X 150.14	22674	8.345	522.8	23.1	

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Authorized Signatory
Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2024-01-02-01 **Date: 13/09/2023**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/09/2023	13/09/2023	150.67 X 150.86 X 150.95	22730	8.186	327.1	14.4	14.4
2	Culvert Bottom Raft Concrete	M20	06/09/2023	13/09/2023	150.37 X 150.90 X 150.77	22691	8.644	325.2	14.3	
3	Culvert Bottom Raft Concrete	M20	06/09/2023	13/09/2023	150.62 X 150.73 X 151.00	22702	8.527	329.1	14.5	

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Authorized Signatory
Quality Manager

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ಯಲಹಂಕ ನವನಗರ ಉಪವಿಭಾಗ,
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Format No. CP/TT-01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-02-01 **Date: 04/10/2023**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division

Agency : Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-09-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 04/10/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/09/2023	04/10/2023	150.27 X 150.53 X 150.36	22619	8.909	536.8	23.7	23.8
2	Culvert Bottom Raft Concrete	M20	06/09/2023	04/10/2023	150.78 X 150.50 X 150.20	22693	8.770	536.5	23.6	
3	Culvert Bottom Raft Concrete	M20	06/09/2023	04/10/2023	150.86 X 150.38 X 150.92	22686	8.916	542.8	23.9	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/09/2023

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	09/09/2023	16/09/2023	150.86 X 150.87 X 150.45	22760	8.919	323.0	14.2	14.2
2	Culvert Side Wall Concrete	M20	09/09/2023	16/09/2023	150.24 X 150.20 X 150.15	22567	8.749	316.7	14.0	
3	Culvert Side Wall Concrete	M20	09/09/2023	16/09/2023	150.71 X 150.87 X 150.42	22735	8.915	329.5	14.5	

* The results obtained are satisfactory as per standard requirements

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/10/2023

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5
Date of test	:	07/10/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	09/09/2023	07/10/2023	150.79 X 150.71 X 150.05	22726	8.984	544.2	23.9	23.8
2	Culvert Side Wall Concrete	M20	09/09/2023	07/10/2023	150.85 X 150.82 X 150.80	22752	8.877	544.8	23.9	
3	Culvert Side Wall Concrete	M20	09/09/2023	07/10/2023	150.02 X 150.99 X 150.15	22652	8.251	529.9	23.4	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 12-07-23

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	11-07-23

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-01-02-01 Date: 13/10/2023
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no:05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No:10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-23
Customer ID	:	Approach Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Approach Concrete	M20	06/10/2023	13/10/2023	150.34 X 150.24 X 150.31	22587	8.476	331.7	14.7	14.4
2	Approach Concrete	M20	06/10/2023	13/10/2023	150.68 X 150.66 X 150.40	22702	8.393	320.8	14.1	
3	Approach Concrete	M20	06/10/2023	13/10/2023	150.75 X 150.38 X 150.55	22670	8.122	328.6	14.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/11/2023

Lab ID	:	CP-2024-01-02-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at B Sector and surrounding areas in ward no.05 Yelahanka New Town Sub Division
Agency	:	Sri. B R Mohan, No.10, 1st B Main , 4th cross, Sweet Water Well Road, Chikkabommasandra, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/113/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-23
Customer ID	:	Approach Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Approach Concrete	M20	06/10/2023	03/11/2023	150.13 X 150.12 X 150.00	22538	8.405	540.0	24.0	23.7
2	Approach Concrete	M20	06/10/2023	03/11/2023	150.54 X 150.93 X 150.73	22720	8.368	538.0	23.7	
3	Approach Concrete	M20	06/10/2023	03/11/2023	150.35 X 150.85 X 150.83	22681	8.567	531.7	23.4	

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****End of Report****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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